

Notice of Allowability

Application No.

10/830,068

Examiner

Dalei Dong

Applicant(s)

AHN, YOUNG JOON

Art Unit

2879

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on August 14, 2006.
2. ☒ The allowed claim(s) is/are 1,3,5,7-9,11-13,26-34,36,37 and 39-42.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David C. Oren on October 11, 2006.

The application has been amended as follows:

In the Specification:

Abstract

~~There is disclosed a~~ A plasma display panel that is adaptive for improving yield and mass productivity and a fabricating method thereof. A plasma display panel according to an embodiment of the present invention includes a first substrate; a second substrate facing the first substrate with a discharge space therebetween; a sealing layer located between the first substrate and the second substrate; and a buffer layer formed between the first substrate and the sealing layer to compensate the thermal stress of the first substrate and the sealing layer.

In the Claims:

Claim 32. (Currently Amended) A plasma display comprising: a first substrate; a second substrate arranged with respect to the first substrate such that a discharge

space is provided therebetween; a sealing layer between the first substrate and the second substrate; and at least one of a buffer layer or a dielectric layer provided on the first substrate and provided between the first substrate and the sealing layer, wherein the at least one of a buffer layer or the dielectric layer has a thickness of 35 μm to 50 μm and a thermal expansion coefficient greater than or equal to $72 \times 10^{-7}/^{\circ}\text{C}$ between the sealing layer and the first substrate; and a protective film on at least one of the buffer layer or the dielectric layer.

Claim 35. (Cancelled).

Allowable Subject Matter

2. Claims 1, 3, 5, 7-9, 11-13, 26-34, 36, 37 and 39-42 allowed.

3. The following is an examiner's statement of reasons for allowance:

Regarding to independent claim 1, prior art of record taken alone or in combination fails to teach or suggest a plasma display panel comprising: at least one of a buffer layer or a dielectric layer formed between the first substrate and the sealing layer, wherein the at least one of the buffer layer or the dielectric layer has the following composition: PbO at a ratio of 45% to 55%, B₂O₃ at a ratio of 10% to 20% and a SiO₂ at a ratio of 15% to 25% in combination with other claimed features of the present claimed invention.

Regarding to dependent claims 3, 5, 7-9, 11-13, 33 and 40, are allowable because of the dependency upon the allowable independent claim 1.

Regarding to independent claim 26, prior art of record taken alone or in combination fails to teach or suggest a plasma display panel comprising: at least one of a buffer layer or a dielectric layer formed between the first substrate and the sealing layer, wherein at least one of the buffer layer or the dielectric layer has a thermal expansion coefficient of approximately $72 \times 10^{-7}/^{\circ}\text{C}$ to $85 \times 10^{-7}/^{\circ}\text{C}$, in combination with other claimed features of the present claimed invention.

Regarding to dependent claims 27-31, 39 and 41, are allowable because of the dependency upon the allowable independent claim 26.

Regarding to independent claim 32, prior art of record taken alone or in combination fails to teach or suggest a plasma display panel comprising: at least one of a buffer layer or a dielectric layer formed between the first substrate and the sealing layer, wherein at least one of the buffer layer or the dielectric layer has a thermal expansion coefficient of approximately $72 \times 10^{-7}/^{\circ}\text{C}$ to $85 \times 10^{-7}/^{\circ}\text{C}$, in combination with other claimed features of the present claimed invention.

Regarding to dependent claims 34, 36, 37 and 42, are allowable because of the dependency upon the allowable independent claim 32.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalei Dong whose telephone number is (571)272-2370. The examiner can normally be reached on 8 A.M. to 5 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on (571)272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2879

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

D.D.
October 11, 2006


MARICELI SANTIAGO
PRIMARY EXAMINER

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Art Unit 2879